

Scan, pay close attention to us

Scan, download configuration

BRIGHT BEACON (Beijing) Science and Technology Ltd.

Beacon

Product manual

I. Product introduction

Cloud beacon is a network sniffer based on iBeacon protocol. Through iBeacon and WiFi, to realize online iBeacon equipment information collection, at the same time, it can conduct online management on iBeacon base station in a certain range around. Support active and passive deployment, and realize the remote management and deployment, easy to collect data and information, so as to help enterprises to obtain more accurate data for marketing.



尺寸:Dimension 重量: Weight MicroUSB 接口: MicroUSB interface RJ45 网络接口: RJ45 network interface 指示灯 Indicator light USB 扩展口 USB extending port

开关 Switch

1.1 Hardware interface function description

Hardware interface	Mark	Function description			
Switch	ON/OFF	Short	press	to	ON/OFF

		machine (default by boot)			
		Long press to reset (clear			
		configuration file)			
USB extending port	sensor	Support USB communication			
		function extending port			
RJ45 network interface		Support Ethernet cable			
		interface			
MicroUSB interface	5V 1A	Connect the power adapter to			
		power a device			

Note: When USB extending interface external connected with high-power device (USB EVDO), it is recommended to use 5V 2A power adapter for power supply of device, ensure the normal operation of device.

	1.2	Radio	frequency	information	parameters
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Bluetooth specification	Bluetooth smart 4.0
Bluetooth transmission power	20db
Signal receiving sensitivity	-106dbm
WLAN transmitted power	18db

1.3 Background management page

Refer to CloudBeacon server-side user manual, see (II) below

1.4 Indicator light state description

After device power on, light is slow flash, on for 500ms, off for 2s

WIFI working, light is normally on.

Bluetooth is scanning, light is slow flash, on for 500ms, off for 5s

Bluetooth connection is established, light is slow flash, on for 1s, off for 2s

Device is abnormal, light is quick flashing, on for 200ms, off for 200ms

1.4 Mobile phone software configuration procedure

Refer to CloudBeacon mobile terminal operating tutorial, see (III) below

II. Service terminal user manual

1. Register and login

CloudBeacon management system login address is http://cloudbeacon.brtbeacon.com, it is recommended to use topspeed mode of Google browser however, QQ or 360 browser. If you do not have an account, please click the register link on top right corner. See Fig. 1-1



2. Binding CloudBeacon

User login system for the first time, one needs to bind the purchased CloudBeacon to his own account, the system will show the bundled CloudBeacon. Bundled CloudBeacon process is as follows:

- 1. To generate the corresponding AppKey for CloudBeacon;
- 2. Download CloudBeacon mobile APP, when APP login, fill in AppKey and mail account (see the top right of page);

3. After APP success login, click [Binding]button, the prompt of success, click [CloudBeacon] menu on the left of this page to check the bundled CloudBeacon.



3. Management interface

After user login, there will list the bundled account CloudBeacon in CloudBeacon interface, see Fig. 3-1.

Coul 1 matemin	E Test@brtbeacon	n.com 🔻 🛃
CloudBeacon	CloudBeacon / CB管理	
ロ 会议签到 キ	用户帐号/Mac地址 搜索	刷新
♥WIFI探针	设备名称 WIFI MAC BLE MAC 所属用户 扫描仅扫描RSSI版本(Wifi/Ble/扫描) 连入时间 上传间隔(Beacon/Wifi) 指	桑作
🚔 AppKey管理	0C60-705900:00:10:10:0C:60E8:25:DA:6C:70:59Test@brtbeacon.com 是 좀 31/8/1.1 2016-07-27 10:03:37 10/10 在표정eacon	更多 🔹
	总共1条记录每页显示1	.0条记录,共1页

Click "On-line BEACON", will list the current CloudBeacon scanning to Beacon device. Click "More", will pop up the following menu, see Fig. 3-2

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CloudBeacon	用户帐号/Ma	WIEL MAC				5本04/6/210/12世)	at 1 时间	h/走河湾/Reason (Mili)	ine	刷新
ロ 会议签到 +	0C60-7059	00:00:10:10:0C:60	E8:25:DA:6C:70:59	Test@brtbeacon.com	是 否	31/8/1.1	2016-07-27 10:03:37	10/10	如和	F 更多 ·
令 WIFI探针								总3	电1条记录每页显示	停止扫描 开启断网重连
▲ AppKey管理									1	数据上报配置 可扫描设备类型: 英亚沿度
										超牙设置 解绑 基本信息
										异常设备 操作日志

Start scanning: after scanning starts, CloudBeacon will scan the peripheral Beacon device and Bluetooth, the store the scanned Beacon device information and Wifi probe data, and send them to CloudBeacon server, after CloudBeacon server received, it will show the Beacon device information on [On-line Beacon] function interface, and Wifi probe data will be shown on [Wifi probe] function interface.

Data report configuration: CloudBeacon will scan the data upload to cloudBeacon server in form of TCP mode, also can upload the scanned data to customer's server in form of Http, upload the configuration parameter can also by this menu setting.

Scanning device type: in this menu, configurable CloudBeacon can scan the identified Beacon device type.

Bluetooth setting: in this menu, can configure CloudBeacon Bluetooth parameters.

Unbundling: user can unbundle the bundled CloudBeacon, after unbundling, this device will not be displayed in CloudBeacon list.

Basic information: display CloudBeacon basic information

List abnormal device: show Beacon device with electric quantity lower than 30%.

4. On-line Beacon

In CloudBeacon list, click [online Beacon] button, will list the current Beacon device scanned by CloudBeacon, as shown below: (see Fig. 4-1)

🛑 Poul / maana	≔						Test@brtbeace	on.com 👻 🛃
CloudBeacon	CloudBeacon / 周边	Beacon管理						
♥WIFU探针	设备名称/Mac地址/Majo	r/Minor/UUID	搜索				未完成配置 日完成配置	返回
➡ AppKey管理	□ 设备名称	Mac地址	Major Minor	RSSI	电量	固件类型	更新时间	操作
	B-Plus	C4:2F:E5:3F:C9:5D	10041 57311	-44	100%	307	2016-07-27 16:18:45	配置
	BrtBeacon307	E4:08:2B:9E:FB:75	11166 64373	-54	100%	307	2016-07-27 16:18:45	3858
	BrtBeacon307	D4:9A:E3:F7:7A:A4	58359 31396	-58	100%	307	2016-07-27 16:18:45	配置
	2016-2-23	E6:38:31:32:63:5F	12594 25439	-62	100%	307	2016-07-27 16:18:45	2015
	BrtBeacon307	F2:06:83:53:E8:4C	33619 59468	-68	100%	307	2016-07-27 16:18:45	115
	🗆 B-AA	D3:76:6C:1B:7A:C4	54134 27675	-69	100%	312	2016-07-27 16:18:45	配置
	2016-4-13	CB:71:3F:A6:A5:80	121 131	-44	88%	304	2016-07-27 16:18:44	1858
	BrtBeacon307	EF:99:20:80:F6:20	8320 63008	-50	100%	307	2016-07-27 16:18:44	配置
	B-Plus	D2:C7:9B:A5:C2:DC	39845 49884	-50	100%	307	2016-07-27 16:18:44	1858
	B-AA	F8:51:B2:E7:8D:61	45799 36193	-52	100%	312	2016-07-27 16:18:44	配置
	批量配置 刷線						总共58条记录。每页显示 1 2 3 4	310条记录,共6页 5 6 ▶

Configuration: Click the information parameter of configurable Beacon;

View: if the Beacon type cannot be identified, then only view the information parameter of Beacon;

Batch configuration: To select multiple Beacon and configure the same parameters at the same time;

Unfinished configuration: in batch configuration, display the unfinished configuration of Beacon; Finished configuration: in batch configuration, display the finished configuration of Beacon; Search: According to the device name, Mac address, Major and Minor for fuzzy

search.

4.1 Single Beacon configuration

Click "Configuration" to configure single Beacon, as shown in the figure below (see Fig. 4-1-1)

Coul 1 BREENE	≔					💮 Test@brtbeacon.com 🔹 🜌
🖵 CloudBeacon	CloudBeacon	/ 周边Beacon管理 / 配置Beacon				
♥WIEI探针						返回
🚢 AppKey管理	设备名称:	B-Plus				
	UUID :	FDA50693A4E24FB1AFCFC6EB07647825				
	Major :	10041			Mionr : 57311	
	测试功率:	-65				
	发射功率:	0dBm(80%)	v	发射间隔	0.80秒 间隔越短可以提高信号稳定性,但会降低电池寿 命	
	广播模式:	仅广播iBeacon数据	Ŧ	请输入标准	的Eddyston-URL(不支持中文)	
	温度间隔:	关闭	Ŧ	电量间隔:	1小时 *	
	光感间隔:	关闭	v	光感休眠:	○ 开启 ○ 关闭	
				蕭		

Fill in the Beacon parameters need to be modified, click [SAVE] button, the server will send Beacon parameters to CloudBeacon, CloudBeacon receives the parameters, will look up the corresponding Beacon configuration parameters, the whole process needs 10 to 60 seconds, after configuration complete, system will prompt success or failure information.

100
100

4.2 View Beacon parameter

If the type of the Beacon cannot be recognized, then the Beacon parameters cannot be configured, can only view the Beacon parameters, as shown in the figure below: (see figure 4-2-1)

4.3 Batch configuration

If a large number of Beacon need configuration, using single configuration function is very time-consuming; Use [batch configuration], can select multiple Beacon at the same time configure

🛑 Poul I matana	≔						Test@brtbe	eacon.com 🔻 🛃
CloudBeacon	CloudBeacon / 周边	Beacon管理						
wifi探针	设备名称/Mac地址/Majo	r/Minor/UUID	搜索				未完成配置 已完成配	置返回
🖵 AppKey管理	□ 设备名称	Mac地址	Major Minor	RSSI	电量	固件类型	更新时间	操作
	BrtBeacon307	EF:99:20:80:F6:20	8320 63008	-50	100%	307	2016-07-27 16:21:12	國法國
	B-Plus	D2:C7:9B:A5:C2:DC	39845 49884	-52	100%	307	2016-07-27 16:21:12	MEM
	BrtBeacon307	D1:68:53:EB:89:EC	21483 35308	-52	100%	307	2016-07-27 16:21:12	267
	BrtBeacon307	ED:75:95:5A:94:8B	38234 38027	-54	100%	307	2016-07-27 16:21:12	MGA
	BrtBeacon307	E4:08:2B:9E:FB:75	11166 64373	-56	100%	307	2016-07-27 16:21:12	2015
	2016-2-20	C6:A3:36:DB:D8:1B	14043 55323	-57	100%	307	2016-07-27 16:21:12	服5页
	2016-2-23	D5:C0:F2:2C:8D:7B	61996 36219	-58	100%	307	2016-07-27 16:21:12	2015 M
	BrtBeacon307	D1:AF:F7:63:73:5C	63331 29532	-59	100%	307	2016-07-27 16:21:12	置5頁
	BrtBeacon307	F9:C1:C2:F0:88:AA	49904 34986	-59	100%	307	2016-07-27 16:21:12	2015 M
	BrtBeacon307	E7:04:42:87:D4:1B	17031 54299	-60	100%	307	2016-07-27 16:21:12	電話
	批量配置 刷新						总共58条记录每页 1 2 3 4	5 6 ▶

the same parameters, is very convenient. As shown in the figure below (figure 4-3-1)

Select the Beacon in configuration, and then click "batch configuration" and show the following configuration interface (as shown in figure 4-3-2)

☐ Beacon管理 × ¢设置	×		
← → C 🗋 cloudbeacon.brtbe	acon.com/V3/Beacon	BatchSettingView.jsp?cb_id=68:13:9f:e5:79:e7:00:0C:43:30:03:04	☆ =
Coul 1 SECTION	:=	👰 294889397@qq.com 🔻	1
CloudBeacon			
♥ WIFI探针	✔ Major :	500 - 1 + Minor: 100 - 1 +	
🔺 AppKey管理	🔲 设备名称:		
	🔲 测试功率:	-65	
	□ 发射功率:	4dBm(100米) *	
	注:在广播状态下	,设置间隔来读取并广播出相应传感暗的数据,如需关才请设置为零	
	□ 广播模式:	次广播iBeacon数据 ▼ 请输入标准的Eddyston-URL(不支持中	
	📄 温度间隔:	10秒 × 电量间隔: 0.5小时 ×	
	● 光感间隔:	1秒 ▼ → 光感休眠: ○ 开启 ● 关闭	
7*24小时音服服势 400-023-3883		开始配置	

Before configuring the designated parameter, user needs to select the configured parameter,

Major :

configuring Major parameter for example, one needs to select Major parameter

, click button

1 +

, can make Major and Minor increasing based on previous

Beacon.

开始配置 Click , system will submit the configuration for background processing automatically, then return to online Beacon interface. In online Beacon interface, can click



to view the configuration results.

5. WIFI probe (see Fig. 5-1-1)

 ● wifi扫描 × 本 设置 	×	-	AaBt Auto	1 M 1	6 Q			
← → C 🗋 cloudbeacon.brtb	eacon.com/V3/Wif	View.jsp						☆ =
🛑 Poul I matemi	:=						294889397@q	q.com 🔻 🛃 🗍
CloudBeacon	WIFI探针 / Wifi]	描						
🗢 WIFIझि	数据分析							~ X
💄 AppKey管理								*
	3,500						4	
	3,000 -							
	2,500 -							
	2,000							
	1,500-							
	1,000 -							
	500-							
	2016-01-14	2016-01-1	5 2016-03	1-16	2016-01-17	2016-01-18	2016-01-19	2016-01-20
			当時区	140				
		1.00						
	15							
		\sim		ソー				
7*24小时客服服务								
• • 400-023-3883	。 设备名称:	CloudBeacon	设备名称: Clou	udBeacon 1F1C				•

6. Other configuration

Data report configuration (see Fig. 6-1-1)

		and and and the local states	5 0 1			
BeaconBit X X X						
🛑 Poul / manual	=			👰 294889397@qq.com 🔹 📫		
CloudBeacon	CloudBeacon / 数据上报配置	I.				
🗢 WIFIझी				保存 返回		
▲ AppKev管理	与智石云服务器通讯的配置信息	6 H M	als with the View			
- · · · · · · · · · · · · · · · · · · ·	参数名称	学致恒	夢奴石称	参致X值		
	是由上特Beacon数据:	×	上1号Beacon数36时1时间隔(秒):	2		
	接收Beacon数据的地址:	cloudbeacon.brtbeacon.com	接收Beacon数据的端口:	55838		
	是否上传Mac数据:	2	上传Mac数据时间间隔(秒):	10		
	接收Mac数据的IP地址:	cloudbeacon.brtbeacon.com	接收Mac数据的调口:	55838		
	与客户服务器通讯的配置信息					
	参数名称	参数值	参数名称	參数值		
	是否上传Beacon数据:	2	上传Beacon数据时间间隔(秒):	2		
	会切Poscon和IEA5ID#b+5 -		Hault Research Ret Have -	-		
	MENCOCACONNOLER TENER	cloudbeacon.brtbeacon.com	HENCERACONSCIENCED :	/upload/beacon/info		
	接收Beacon数据的端口:	8081				
	是否上传Mac数据:	2	上传Mac数据时间间隔(秒):	10		
	接收Mac数据的IP地址:	cloudbeacon.brtbeacon.com	接收Mac数据的URL地址:	/upload/mac/info		
7*24小时音题服务	接收Mac数据的端口:	8080				
400-025-5885						
Beacon⊞i × × ← → C C cloudbeacon.brtbe	BecontER x ← → C C C doudbeacon.brtbeacon.com/V3/BluetoothSettingView.jsp?cb_id=3c:75:fc:3c:ab:c0:00:0C:43:30:03:20 ☆ E ● PouL Immund/ob@163.com ▼ Immund/ob@163.com ▼ Immund/ob@163.com ▼ Immund/ob@163.com ▼					
CloudBeacon	CloudBeacon / 蓝牙设置					
♥ WIFI採针				保存返回		
o : Beacon类型	参数名称	参数值	参数名称	参数值		
	设备名称:	BrtBeacon401	设备地址:	3C75FC3CABC0		
🔺 AppKey管理	UUID :	E2C56DB5DFFB48D2B060D0F5A71096E0	Major :	15612		
	Minor :	30012	固件类型:	1025		
	固件版本:	1	设备模式:	32768		
	测量信号强度:	-65	发送功率:	4		
	电池电量百分比:	100	设备温度:	19		
	广播间隔时间(宽秒):	100	温度检测间隔时间(秒):	3600		
	电量检测问隔时间(秒):	ebo	广播切换间隔时间(秒):	750		
	Eddystone URLyby:		设备KEY			

CloudBeacon basic information (see Fig. 6-1-3)

🛑 Poul I maunus	=			👰 cloudbeacon@brtbeacon.com 🔻 🜌
CloudBeacon	CloudBeacon / CB基本信息			
◆ WIFI探针				传改Wiff的993 返回
OC Beacon类型	唯一标识:	4b:80:55:91:82:e3:00:00:10:10:13:F0	在线状态:	是
Beacon)年	ipteti:	14.155.227.227	端口号:	33488
AppKev管理	蓋牙Mac地址:	E3:82:91:55:80:48	网+Mac地址:	00:00:10:10:13:F0
	是否开启扫描:	聚	应用程序版本号:	31
	扫描配置文件版本号:	1.7		
7*24小利吉臣服务 400-023-3883		善架号:) 逾ICP答14003428号 Coj	syright © 2014 Bright Beacon Inc	

III. CloudBeacon Mobile terminal configuration of network connection and binding

- Power on CloudBeacon, CloudBeacon adopts Micro USB for power supply, it recommended 5V 1A power adapter for device power supply.
- Download CloudBeacon configuration APP. Download link: http://fir.im/cloudbeacon, or log in CloudBeacon management background: http://cloudbeacon,brtbeacon.com, And download in Appkey management page.



Scan 2D barcode to download

- Connect the phone WIFI to CloudBeacon emission WIFI. Open the phone Settings function select WLAN, select CloudBeacon emitted WIFI in attachment WALN list, CloudBeacon emitted WIFI name is named by BRTXXXX, click to enter the password, default password is 12345678.
- 4. Turn on CloudBeacon configuration terminal APP, see Fig. 3-1-1



- 5. Enter the user name and password, the user name and password are the account and password of developer center (login function here is to record the user's accounts, but also have to enter the correct username and password, and will be validated when binding the device). As shown in figure 3-1-2
- 6. Add CloudBeacon, see Fig. 3-1-3

下午2:49	* 🗢 🗆 🔲	下午2:28		* 🗢 🗵 🔲
	登录	!	CloudBeacon配置管理	
请输入账号			+ 新增CloudBeacon	
请输入密码				
	登录			

7. Choose online pattern. CloudBeacon provides two online patterns, respectively are limited connection and STA mode, limited connection refers to connect intent network cables from network ports, the STA mode refers to by setting to connect CloudBeacon connected to surrounding WIFI to get to the Internet, here we mainly illustrate the STA mode configuration. As shown in figure 3-1-4



8. Add APPKey, operation procedure as shown below:





9. CloudBeacon list interface, see Fig. 3-1-4



Click CloudBeacon information to enter into available WIFI list surround CloudBeacon

10. CloudBeaocn surrounding WIFI management interface. After entering into CB surrounding wifi management interface, it will determine whether the CB is connected to network or not, if it is connected to network , then directly operate binding CB with user account, if it is not connected to network, then load the available WIFI list surrounding CB device (here mainly show operation without network connection).



下午	5:12	ſ;\$ \$ ⊠ ⊂■
	设备网络检测	
	MPHOTOOL24G	ج 🔒
	BrtCB433002EC	2 🕈
	TP-LINK_DAA6	ê 🛜
	BrtCB43300378	ê 🛜
	BrightBeacon	ê 🛜
	BrtCB7E801F0D	2 🕈
	BrtCB43300380	ê 🛜
	BrtCB43300338	ê 🛜
	BrtCB003003AC	2 🕈
	BrtCB43300328	â 🛜

下午5:52	Û\$⊗⊠ 🗨
BrtCB433002EC	i ኛ
Manyoung_2.4G	ê 🛜
PTB-mPHOTOOL	ê
BrtCB7E801F0D	ê 🛜
BrtCB43300380	ê
BrtCB43300378	
E 请输入密码	?
を接 取り	j 🗧
BrtCB43300328	ê 🛜
ChinalNet-A97f 於約41 CR M 市台	,点击链 #:# \ CB
ErtC#143300378	â
www.b2b168.com	ê 🛜
205	ê 🛜
BrtCB43300338	ê 🛜



- 11. STA mode CB binding with user
- a、 Bind CloudBeacon binding

b.	∰##6:15 ≱ ♥ C C CloudBeacon ()	Cted t	Tf4:05 Ω \$ ♥ □ □ < CloudBeacon	own i	:09
c			BrtCB43300338		
đ		bind	MAC地址:00:0C:43:30:03:38		
u		o mu	BrtCB4330037C		
			MAC地址:00:0C:43:30:03:7C		
	提示		BrtCB003003AC		提示
	还未搜索到CloudBeacon (00:0C: 43:30:03:90),请检查手机无线局域网是否连接 到其他热点。请手动选择CloudBeacon的热点		MAC地址:00:0A:00:30:03:AC 选择之前操作的CB,占击		检测到CloudBeacon网络可用,点击确认去绑 空设备吧
	进行连接。 确认		BrtCB7E801F1C		确认
	点击"确定"按钮将重新扫描周边	2	MAC地址:64:51:7E:80:1F:1C		بالمريح والمحمد المراجع المراجع المراجع المراجع
		列 要	BrtCB43300328		
		Ū . e=	MAC地址:00:0C:43:30:03:28		
			BrtCB43300378		
		¢.	MAC地址:00:0C:43:30:03:78		
		_			